

CTTCCACTTCCTCTGTAATGGTGGAAACCAAAACCCCTAGATTCCCCCTTTCATCTTCTCTA  
CTTCCCACACTTTTCTCTCTCACAACTCTTGAGAAATGAAGACTTTTTCAGCTTCTTT  
CTCTCTGTAACAACTCTCTTCTTCTCTCTCTTTCTCTTTTCATTTCAAGCTTCACCA  
TCTCAGTCTTTATACAGAGAAATCCATCAGCTTATAAGCTTCAAAGACGTTCTTCCTGAC  
AAGAATCTTCTCCAGACTGGTCTTCCAACAAAAACCCGTGTACTTTGGATGGCGTTACT  
TGCAGAGACGACAAAGTTACTTCGATTGATCTCAGCTCCAAGGCTCTCAACGCTCGGATTC  
AGTGCCGTGTCTCTGCTCTCTCTCTCTCAGCGGATTAGAGTCTCTGTTTCTCTCAAAC  
TCACACATCAATGGCTCCGTTTCTGGCTTCAAGTGCTCTGCTTCTTAAACAGCTTGGAT  
CTATCTAGAACTCTCTTTCCGGTCTCTGTAACGACTCTAACAAGCTTGGTTCTTGCTCC  
GGTCTGAAGTTTCTTAAAGTCTCTTCCAATACACTTGATTTTCCCGGGAAAGTTTCAGGT  
GGGTTGAAGCTAAACAGCTTGGAAAGTTCTGGATCTTCTTGCGAATTCATCTCCGGTGT  
AACGTCGTTGGTTGGGTTCTCTCCGATGGGTGTGGAGAGTTGAAACATTTAGCGATTAGC  
GGAAACAAAATCAGTGGAGACGTCGATGTTTCTCGCTGCGTGAATCTCGAGTTTCTCGAT  
GTTTCTCTCAAACAATTTCTCCACTGGGATTCCCTTCTCGGAGATTGCTCTGCTCTGCAA  
CATCTTGACATCTCCGGGAACAAATTATCCGGCGATTCTCTCCCGTGTATCTCTACTTGC  
ACAGAGCTCAAGTTGTTGAACATCTCTAGTAACCAATTCGTCGGACCAATCCCTCCGCTA  
CCGCTTAAAAGTCTCCAATACCTCTCTCTGGCGGAGAACAAATTCACCGGCGAGATCCCT  
GACTTTCTCTCCGGCGCGGTGTGATACACTCACTGGTCTCGATCTCTCTGGAAATCATTTC  
TACGGTGGCGTTCTCTCCATTTCTGGGTTGATGTTCTCTCTCTCGAATCACTCGCGTTGTGG  
AGTAACAACCTCTCTGGCGAGTTACCGATGGATACGTTGTTGAAGATGAGAGGACTCAAA  
GTACTTGATCTGTCTTTCAACGAGTTTTCGGCGAATTACCGGAATCTCTGAUGAATCTA  
TCCGCTTCGTTGCTAACGTTAGATCTCAGCTCCAACAATTTCTCCGGTCCGATTCTCCCA  
AATCTCTGCCAGAACCCTAAAAACACTCTGCAGGAGCTTTACCTTCAGAACAATGGCTTC  
ACCGGGAAGATTCCACCGACTTTAAGCAACTGTTCTGAGCTGGTTTCCGTTCACTTGAGC  
TTCAATTACCTCTCCGGGACAATCCCTTCGAGCTTAGGCTCTCTATCGAAGCTTCGAGAT  
CTGAAACTATGGCTGAATATGTTAGAAGGAGAGATCCCTCAGGAGCTCATGTATGTCAG  
ACCTTAGAGACTCTGATCCCTGACTTCAACGATTTAAGCGTGAAATCCCTTCCGGTTTA  
AGTAAGTGAACCAATCTTAACTGGATTCTCTCTGTCGAATAACCGGTTAACCGGTGAGATT  
CCGAAATGGATTGGCCGGTTAGAGAATCTCGCTATCCTCAAAGTTAAGCAACAATTCATT  
TCCGGGAACATTCGGATGAGCTCGCGGACTGCAGAAGCTTAATCTGGCTTGATCTCAAC  
ACCAATCTCTTCAATGGAACGATTCGGGCGGGGATGTTTAAACAATCCGGGAAATCGCT  
GCCAATTTTCATCGCCGGTAAGAGGTACGTTTATATCAAAAACGATGGGATGAAGAAAGAG  
TGTCATGGAGCTGGTAATTTACTTGAGTTTCAAGGAATCAGATCCGAACAATTAACCGG  
CTTTCAACGAGGAACCTTGTAATATCACTAGCAGAGTCTATGGAGGTCACACTTCGCGG  
ACGTTTGATAACAATGGTTCGATGATGTTTCTGGACATGTCTTACAACATGTTGTCTGGA  
TACATACCGAAGGAGATTGGTTCGATGCCTTATCTGTTTATTCTCAATTTGGGTCATAAC  
GATATCTCTGGTTCGATTCTGATGAGGTAGGTGATCTAAGAGGTTTAAACATTCTTGAT  
CTTTCAAGCAATAAGCTCGATGGGAGGATTCTCAGGCTATGTCAGCTCTTACTATGCTT  
ACGGAAATCGATTTGTGGAATAATAATTTGTCTGGTCCGATTCTCGAGATGGGTCACTTT  
GAGACTTTTCCACCGGCTAAGTTCTTGAACAATCCTGGTCTCTGTGGTTATCCTCTTCCG  
CGGTGTGATCCTTCAAATGCAGACGGTTATGCTCATCATCAGAGATCTCATGGAAGGAGA  
CCAGCGTCCCTTGCTGGTAGTGTGGCGATGGGATTGTTGTTCTCTTTTGTGTGTATATTT  
GGGCTGATCCTTGTTGGTAGAGAGATGAGGAAGAGACGGAGAAAGAAAGAGGCGGAGTTG  
GAGATGTATGCGGAAGGACATGGAAACTCTGGCGATAGAAGTGTAAACAACACCAATTGG  
AAGCTGACTGGTGTGAAAGAAGCCTTGAGTATCAATCTTGCTGCTTTTCGAGAAGCCATTG  
CGGAAGCTCACGTTTGGCGATCTTCTCAGGCTACCAATGGTTTCCATAATGATAGTCTG  
ATTGGTTCTGGTGGGTTTGGAGATGTTTACAAAGCGATTTTGAAAGATGGAAGCGCGGTG  
GCTATCAAGAACTGATTCATGTTAGCGGTCAAGGTGATAGAGAGTTTATGGCGGAGATG  
GAAACCATTGGGAAGATCAAACATCGAAATCTTGTCCTCTTCTTGTTATTGCAAGTT

FIGURE 1A

GGAGACGAGCGGCTTCTTGTTAATGAGGTTATGAAGTATGGAAGTTTAGAAGATGTTTTG  
CAAGACCCCAAGAAAGGTGGGGTGAAACTTAAATTGTCCACACGGCGGAAGATTGGGATA  
GGATCAGCTAGAGGGGCTTGCTTTCCCTTCACCACAACCTGCAGTCCGCATATCATCCACAGA  
GACATGAAATCCAGTAATGTGTTGCTTGATGAGAATTTGGAAGCTCGGGTTTCAGATTTT  
GGCATGGCGAGGCTGATGAGTCCGATGGATACGCATTTAAGCCTCAGTACATTAGCTGGT  
ACACCGGGTTACGTTCCCTCCAGAGTATTACCAAAGTTTCAGGTGTTCAACAAAAGGAGAC  
GTTTATAGTTACGGTGTGGTCTTACTCGAGCTACTCACGGGTAAACGGCCAACGGATTCA  
CCGGATTTTGGAGATAACAACCTTGTTGGATGGGTGAAACAGCACGCAAAACTGCGGATT  
AGCGATGTGTTTGACCCGAGGCTTATGAAGGAAGATCCAGCATTAGAGATCGAACTTTTA  
CAACATTTAAAAGTTGCGGTTGCGTGTGTTGGATGATCGGGCTTGGAGACGACCGACAATG  
GTACAAGTCATGGCCATGTTTAAAGGAGATACAAGCCGGGTCAAGGATAGATTCAAGTCA  
ACGATCAGATCAATAGAGGATGGAGGGTTTCAGTACAATAGAGATGGTTGATATGAGTATA  
AAAGAAGTTCCCTGAAGGAAAATTATGAGAGTTAGAAACAGAGCCAAAGCAGATTCTTTGA  
ACATCAAAATCATCTAAGGGTTCAGTCCGATTTTCCCTTGGGTCTATTTTTTTTGTATTTTC  
TACTATATGCTAAGTGTATGTATCTATGTTATTTATACATAAGACGGATGTTTTTTTTTT  
CGGGCTCGGTGCAATTGGGGGTGGTGGAGAATAGAACTAAGTAATAACTTTGTTAAGAAT  
ATGTAAATATACAGTTTTTTGGGGAGGGATTTGTAATGTTTTCGTTTTTTAGTTCTATGSA  
AATTTCTACGTTGCTAACAATTAATTTATAATGAATCATGAAGAAACAAAGAGGCCAAT  
GTGTATTAAATTCGACTGATCATGTTGATGTAATGCACTGACCTATTAATTCATTAT  
TGTCGGAATTAATTTGGGGAATTC

FIGURE 1B

MKTFSSFFLSVTTLFFFSFFSLSFQASPSQSLYREIHQLISFKDVLDPKN  
LLPDWSSNKNPCTFDGVTCRDDKVTSIDLSSKPLNVGFSAVSSLLSLTG  
LESFLSNSHINGSVSGFKCSASLTSLDLSRNSLSGPVTTLTSLGSCSGL  
KFLNVSSNTLDFPGKVSGGLKLNSLEVLDLSANSISGANVVGWVLSDGCG  
ELKHLAISGNKISGDVDVSRVNLFLDVSSNNFSTGIPFLGDCSALQHL  
DISGNKLSGDFSRAISTCTELKLLNISSNQFVGPIPPPLPLKSLQYLSLAE  
NKFTGEIPDFLSGACDTLTGLDLSGNHFGYGAVPPFFGSCSLLESALSSN  
NFSGELPMDTLLKMRGLKVLDLSFNEFSGELPESLTNLSASLLTLDLSSN  
NFSGPILPNLCQNPKNLTQELYLQNNGFTGKIPPTLSNCSELVSLHLSFN  
YLSGTIPSSLSLSKLRDLKLWLNMLEGEIPQELMYVKTLETIILDFNDL  
TGEIPSGLSNCTNLNWISLSNNRLTGEIPKWIGRLENLAILKLSNNSFSG  
NIPDELGDCRS LIWLDLNTNLFNGTIPAAMFKQSGKIAANFIAGKRYVYI  
KNDGMKKECHGAGNLLFQGIRSEQLNRLSTRNPCNITSRVYGGHTSPTF  
DNNGSMMFLDMSYNMLSGYIPKEIGSNPYLFILNLGHNDISGSIPDEVGD  
LRGLNILDLSSNKL DGRI PQAMSALTMLTEIDL SNNNL SGPIPEMGQFET  
FPPAKFLNMPGLCGYPLPRCDPSNADGYAHHQRSHGRRPASLAGSVAMGL  
LFSFVCI FGLILVGREMRKRRRKKEAELEMYAEGHGNSGDRTANNTNWKL  
TGVKEALSINLAAFEKPLRKLTFADLLQATNGFHND SLIGSGGF GDVYKA  
ILKDGS AVAIKKLIHVSGQGDREFMAEMETIGKIKHRNLVPLLGYCKVGD  
ERLLVNEVMKYGSLEDVLQDPKKGGVKLKLSTRRKIAIGSARGLAFLHHN  
CSPHIIHRDMKSSNVLLDENLEARVSDFGMARLMSAMDTHLSVSTLAGTP  
GYVPPEYYQSFRCKSTKGDVYSYGVVLELLTGKRPTDSPDFGDNNLVGWV  
KQHAKLRISDVFDPELMKEDPALEIELLQHLKVAVACLDDRAWRRPTMVQ  
VMAMFKEIQAGSGIDSQSTIRSIEDGGFSTIEMVDMSIKEVPEGKL

FIGURE 1C

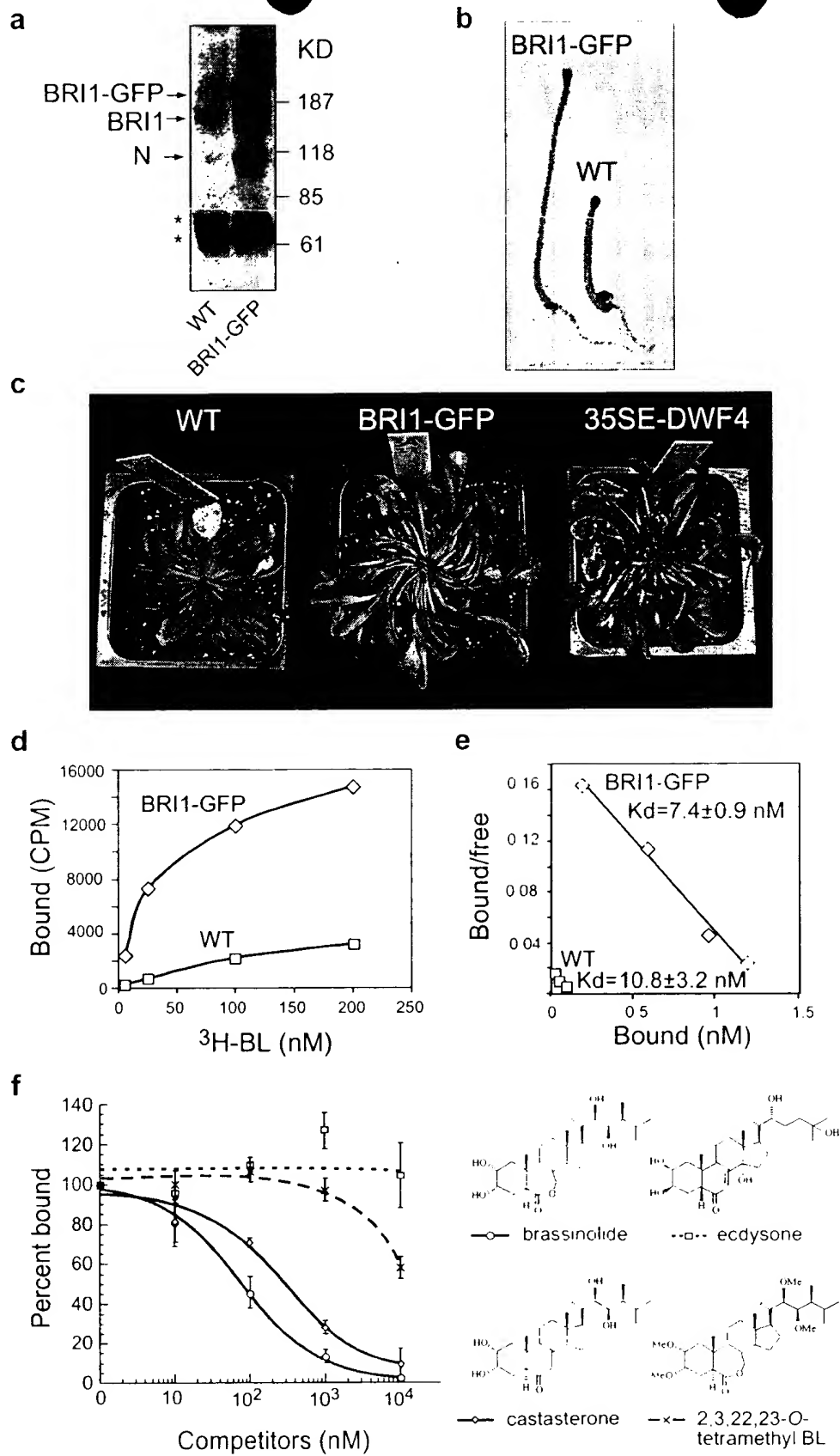


FIG. 2

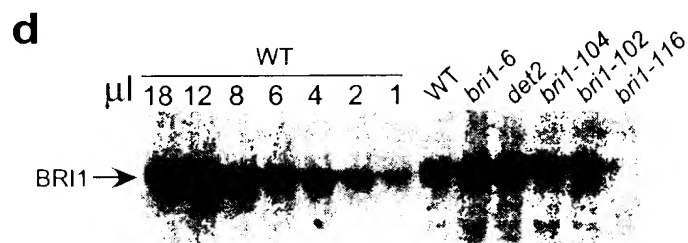
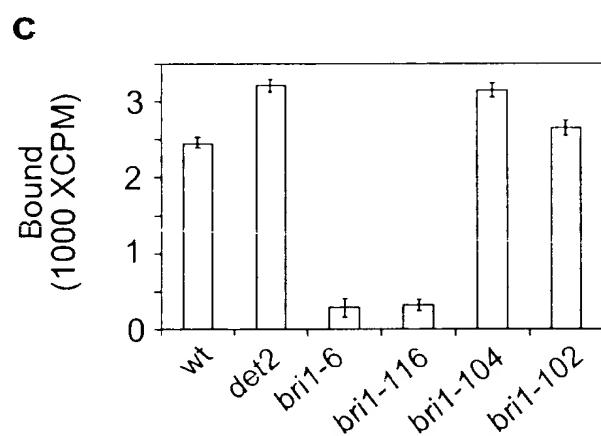
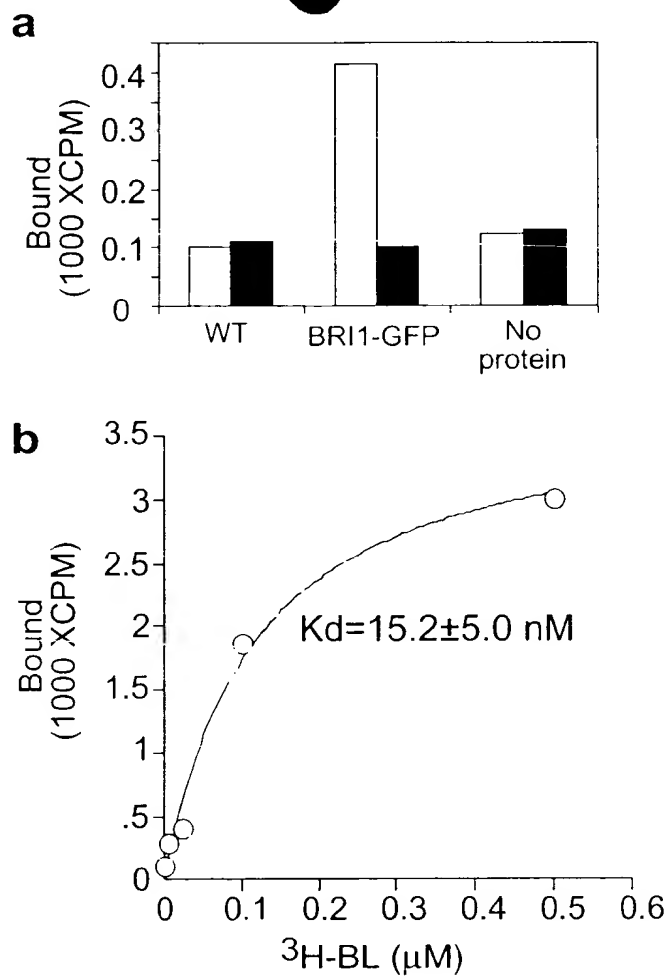
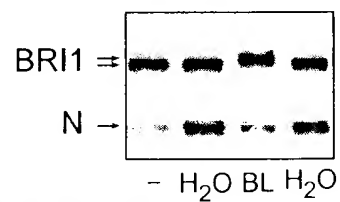
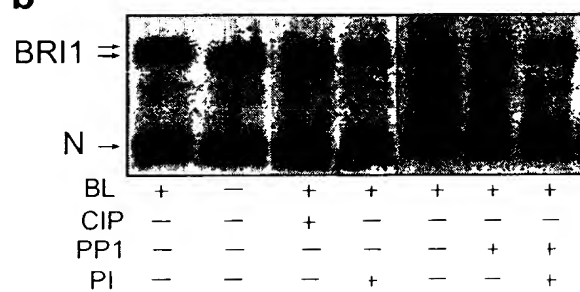


FIG. 3

**a**



**b**



**c**

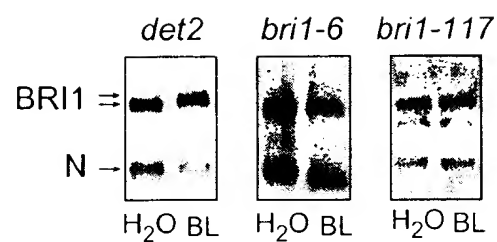


FIG. 4